

ABSTRACT OF THE DISCLOSURE

A communication system includes a first communication station for transmitting first data and second data at a first transmission power level and a second transmission power level, respectively, and a second communication station for receiving the first data and the second data transmitted from the first communication station as a reception signal. The second communication station generates transmission power control information based on the received first and second data, and transmits the generated transmission power control information to the first communication station. The first communication station receives the transmission power control information from the second communication station, and controls the first transmission power level and the second transmission power level independently of each other based on the transmission power control information.